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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 2

Complete if Known

Application Number	(Natl. phase of PCT/JP04/010807)
Filing Date	(Herein) 10/5/99
First Named Inventor	Masahito YAMASHITA
Art Unit	(Unassigned)
Examiner Name	(Unassigned)
Attorney Docket Number	12477/10

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
	1	US-5,834,566	11/10/98	HELMER-METZMANN et al.	
	2	US-5,989,742	11/23/99	CABASSO et al.	
	3	US-2002/0091225A1	07/11/02	MCGRATH et al.	= WO02/25764

FOREIGN PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	1	WO 99/10165	03/04/99	FOSTER-MILLER, INC.		
	2	WO 02/25764	03/28/02	VIRGINIA TECH INTELLECTUAL PROPERTIES, INC.		
	3	WO 00/15691	03/23/00	VICTREX MFG. LTD.		
	4	JP 06-093114	04/05/94	HOECHST AG		
	5	JP 2-884189	02/12/99	KONISHI CHEMICAL IND CO, LTD.		
	6	JP 2003-217343	07/31/03	TOYOBO CO LTD		
	7	JP 2003-217342	07/31/03	TOYOBO CO LTD.		
	8	JP 08-020716 A	01/23/96	HOECHST AG		
	9	JP 2002-524631A	08/06/02	VICTREX MFG. LTD.		
	10	JP 2001-514431A1	09/11/01	FOSTER-MILLER, INC.		
	11	JP 2002-502539A1	01/22/02	THE RESEARCH FOUNDATION OF THE STATE UNIV. OF NY		
	12	JP 11-067224A	03/09/99	ASAHI CHEM. IND CO, LTD.		
	13	JP 11-007969A	01/12/99	ASAHI CHEM. IND CO, LTD.		
	14	JP 2004-149779A	05/27/04	TOYOBO CO., LTD.		
	15	JP 07-268114A	10/17/95	ASAHI GLASS CO., LTD.		
	16	JP 01-129023A	05/22/89	TOSOH CORP.		

Examiner Signature

/Stephen Yanchuk/

Date Considered

06/01/2009

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First Named Inventor	Masahiro YAMASHITA
Group Art Unit	(Unassigned)
Examiner Name	(Unassigned)
Attorney Docket Number	12477/10

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	"Partially sulfonated poly(arylene ether sulfone) – A versatile proton conducting membrane material for modern energy conversion technologies", R. Nolte et al., Journal of Membrane Science, 83, 1993, pp. 211-220	
	2	"Proton conducting composite membranes from polyether ether ketone and heteropolyacids for fuel cell applications", S.M.J> Zaidi et al., Journal of Membrane Science, 173, 2000, pp. 17-34	
	3	"Proton-conducting polymers derived from poly(ether-etherketone) and poly(4-phenoxybenzoyl-1, 4-phenylene)", Takeshi Kobayashi et al., Solid State Ionics 106, 1998, pp. 219-225	
	4	"Polyaromatic Ether-Ketone Sulfonamides Prepared from Polydiphenyl Ether-Ketones by Chlorosulfonation and Treatment with Secondary Amines", Jasun Lee et al., Journal of Polymer Science: Polymer Chemistry Edition, Vol. 22, 1984, pp. 295-301	
	5	"Synthesis and Characterization of Sulfonated Poly(arylene Ether Sulfones)", B.C. Johnson et al., Journal of Polymer Science: Polymer Chemistry Edition, Vol. 22, 1984, pp. 721-737	
	6	"Polyaromatic Ether-Ketones and Ether-Keto-Sulfones Having Various Hydrophilic Groups", Takeshi Ogawa et al., Journal of Polymer Science: Polymer Chemistry Edition, Vol. 23, 1985, pp. 1231-1241	
	7	"Direct Methanol Fuel Cell Performance Using Sulfonated Poly(arylene ether sulfone) Random Copolymers as Electrolytes", B.S. Pivovar et al., AIChE, Fuel Cell Technology: Opportunities and challenges, 2002, pp. 535-542	
	8	"Chemical Structure and Morphological considerations for Designing Direct Methanol Fuel Cell Proton Exchange membranes", M. Hickner and J.E. McGrath, The Electrochemical Society 203 rd Meeting Paris, 2003, Abs., Abstract No. 1169	
	9	"Synthesis and Characterization of Controlled Molecular Weight Sulfonated Aminofunctional Poly(Arylene Ether Sulfone)s prepared by Direct Polymerization", J. Mechem et al., Polymer Preprints 2000, 41(2), pp. 1388-1389	
Examiner Signature	/Stephen Yanchuk/		Date Considered
			06/01/2009

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